Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-16. (Cancelled).

17. (Currently Amended)A method of wireless communication, comprising:

transmitting a message to one or more wireless units, said message including (i) a first control data that causes said one or more wireless units to enable request to send (RTS) and clear to send (RTS/CTS) data transmissions in transmitting data packets to an access point, and (ii) a second control data that causes said one or more wireless units to automatically adjust a fragmentation threshold in response to changes within the wireless transmission medium based on a finite time duration for data packet transmission taking in account a size of each data packet and a data rate for transmission of each data packet ~~independent of whether or not RTS/CTS data transmissions are used~~; and

measuring a transmission error factor and adjusting the fragmentation threshold in accordance with said measured transmission error factor.

18. (Original) The method of claim 17, wherein said message comprises a multicast data packet intended for said one or more associated wireless units.

19. (Previously Presented) The method of claim 17, wherein said second control data of said message includes a current fragmentation threshold being determined by the access point (i) comparing the transmission error factor to an upper threshold and reducing a prior fragmentation threshold to the current fragmentation threshold if the transmission error factor is greater than the upper threshold and (ii) comparing the transmission error factor to a lower threshold and increasing the prior fragmentation threshold to the current fragmentation threshold if the transmission error factor is less than the lower threshold.

20. (Previously Presented) The method of claim 19, wherein the current fragmentation threshold is determined by dividing a maximum fragmentation threshold by a divisional factor, the divisional factor is decremented when the transmission error factor is greater than the upper threshold, is incremented when the transmission error factor is less

than the lower threshold and remains constant when the transmission error factor is less than the upper threshold and greater than the lower threshold.

21. (Currently Amended) An access point having a logic circuit to transmit a message to one or more associated wireless unit, wherein said message includes (i) a first control data that causes said one or more associated wireless units to enable request to send (RTS) and clear to send (RTS/CTS) data transmissions in transmitting at least one data packets to said access point, and (ii) a second control data that causes said one or more associated wireless units to automatically adjust a fragmentation threshold in response to changes within the wireless transmission medium based on a finite time duration for data packet transmission taking in account a size of said data packet and a data rate for transmission of said data packet ~~independent of whether or not RTS/CTS data transmissions are used~~, said logic circuit being operable to continue to adjust the fragmentation threshold through subsequent messages based on a measured transmission error factor.

22. (Original) The access point of claim 21, wherein said message comprises a multicast data packet intended for said one or more associated wireless units.

23. (Currently Amended) The access point of claim 21, wherein said message further includes said second control data includes a current fragmentation threshold being determined by the access point (i) comparing the transmission error factor to a lower ~~an upper~~ threshold ~~and reducing a prior fragmentation threshold to the current fragmentation threshold if the transmission error factor is greater than the upper threshold~~ and (ii) increasing the finite time duration by increasing the fragmentation threshold if the transmission error factor is below the lower threshold~~comparing the transmission error factor to a lower threshold and increasing the prior fragmentation threshold to the current fragmentation threshold if the transmission error factor is less than the lower threshold~~.

24. (Currently Amended) The access point of claim ~~23~~21, wherein the ~~current~~ fragmentation threshold is automatically adjusted by (i) comparing the transmission error factor to an upper threshold, (ii) decreasing the finite time duration by decreasing the fragmentation threshold if the transmission error factor is above the upper threshold, (iii) comparing the transmission error factor to a lower threshold, and (iv) increasing the finite time duration by increasing the fragmentation threshold if the transmission error factor is

below the lower threshold~~determined by dividing a maximum fragmentation threshold by a divisional factor, the divisional factor is decremented when the transmission error factor is greater than the upper threshold, is incremented when the transmission error factor is less than the lower threshold and remains constant when the transmission error factor is less than the upper threshold and greater than the lower threshold~~.

25. (Currently Amended) A machine readable medium including a software routine to control a logic circuit to transmit a message to one or more associated wireless unit, wherein said message includes (i) a first control data that causes said logic circuit to enable request to send (RTS) and clear to send (RTS/CTS) data transmissions in transmitting data packets to said access point, and (ii) a second control data that causes said one or more associated wireless units to automatically adjust a fragmentation threshold in response to changes within the wireless transmission medium based on a finite time duration for a transmission of one of said data packets taking in account a size of said one of said data packets and a data rate for transmission of said one of said data packets ~~independent of whether or not RTS/CTS data transmissions are used and continue to adjust the fragmentation threshold based on a measured transmission error factor~~ and to continue to adjust the fragmentation threshold based on a measured transmission error factor.

26. (Original) The machine readable medium of claim 25, wherein said message comprises a multicast data packet intended for said one or more associated wireless units.

27. (Currently Amended) The machine readable medium of claim 25, wherein said second control data of said message includes a current fragmentation threshold being determined by the access point (i) comparing the transmission error factor to an upper threshold, (ii) decreasing the finite time duration by decreasing the fragmentation threshold if the transmission error factor is above the upper threshold, (iii) comparing the transmission error factor to a lower threshold, and (iv) increasing the finite time duration by increasing the fragmentation threshold if the transmission error factor is below the lower threshold~~(i) comparing the transmission error factor to an upper threshold and reducing a prior fragmentation threshold to the current fragmentation threshold if the transmission error factor is greater than the upper threshold and (ii) comparing the transmission error factor to a lower threshold and increasing the prior fragmentation threshold to the current fragmentation threshold if the transmission error factor is less than the lower threshold~~.

28. (Currently Amended) The machine readable medium of claim 27, wherein said second control data of said message includes a ~~the~~ current fragmentation threshold ~~is~~ being determined by dividing a maximum fragmentation threshold by a divisional factor, the divisional factor is decremented when the transmission error factor is greater than the upper threshold, is incremented when the transmission error factor is less than the lower threshold and remains constant when the transmission error factor is less than the upper threshold and greater than the lower threshold.

29. (Currently Amended) A wireless unit, comprising:

a wireless transceiver to communicate with an access point via a wireless transmission medium; and

a logic circuit to receive a message from said access point by way of said wireless transceiver, wherein said message includes (i) a first control data that causes a request to send (RTS) and clear to send (RTS/CTS) transmission of data to said access point, and (ii) a second control data that causes automatic adjustment of a fragmentation threshold supported by said wireless unit in response to changes within the wireless transmission medium based on a finite time duration for transmission of a data packet taking into account a size of said data packet and a rate for transmission of said data packet ~~and independent of whether or not RTS/CTS data transmissions are used~~, said logic circuit to continue to adjust said fragmentation threshold through subsequent messages based on a measured transmission error factor.

30. (Original) The wireless unit of claim 29, wherein said message comprises a multicast data packet.

31. (Currently Amended) The wireless unit of claim 29, wherein said second control data of said message includes a current fragmentation threshold being determined ~~by~~ after said access point (i) compares said transmission error factor to an upper threshold and reduces a prior fragmentation threshold to the current fragmentation threshold if the transmission error factor is greater than the upper threshold and (ii) compares the transmission error factor to a lower threshold and increases the prior fragmentation threshold

to the current fragmentation threshold if the transmission error factor is less than the lower threshold.

32. (Previously Presented) The wireless unit of claim 29, wherein said second control data including a reduced fragmentation threshold provided in real-time in response to a change in the wireless transmission medium due to an increase in RF interference.

33-40. (Cancelled).

41. (Currently Amended) An access point having a logic circuit to transmit a message to one or more associated wireless unit, said message includes a first control data that causes said one or more associated wireless units to adjust a fragmentation threshold in transmitting data packets to said access point and a second control data that causes said one or more wireless units to use request to send (RTS) and clear to send (CTS) in the transmission of data to said access point, said logic circuit to adjust of the fragmentation threshold based on a time duration for transmission of said message taking into account a size of said message and a rate for transmission of said message ~~being independent of whether or not the RTS and CTS are used in the data transmissions~~ and to continue to adjust the fragmentation threshold through subsequent messages based on a measured transmission error factor.

42. (Previously Presented) The access point of claim 41, wherein said message is a multicast data packet intended for said one or more wireless units.

43. (Previously Presented) The access point of claim 41, wherein said message further includes a specified fragmentation threshold to be used by said one or more wireless units.

44. (Currently Amended) A machine readable medium including a software routine executed to control a logic circuit to transmit a message to one or more associated wireless unit, said message includes (i) a first control data that causes said one or more associated wireless units to use request to send (RTS) and clear to send (CTS) in the transmission of data to an access point, and (ii) a second control data that causes automatic adjustment of a fragmentation threshold supported by said wireless unit in response to

changes within the wireless transmission medium based on a finite time duration for a transmission of a data packet taking in account a size of said data packet and a data rate for transmission of said data packet ~~and independent of whether or not RTS/CTS data transmissions are used~~, said logic circuit to continue to adjust said fragmentation threshold through subsequent messages based on a measured transmission error factor.

45. (Previously Presented) The machine readable medium of claim 44, wherein said message further includes a second control data that causes said one or more associated wireless units to implement fragmentation threshold in transmitting data packets to said access point.

46. (Previously Presented) The machine readable medium of claim 45, wherein said message further includes a specified fragmentation threshold to be used by said one or more associated wireless units.